

What is claimed is:

1. Device for treating particulate material, having
 - a process chamber for accommodating and for treating a material,
 - said process chamber having a bottom being composed of baffle plates which overlap one another and between which baffle plates slots are formed, via which slots a process air can be introduced with an essentially horizontal component movement into said process chamber,
 - said slots being arranged in such a way that two flows directed towards one another are produced, these two flows meeting one another along a breaking-up zone and being deflected into a flow directed vertically upwards, wherein
 - said baffle plates are designed as annular plates, so that circular slots are formed, and said annular plates are placed in such a way that a radially outer, first flow, directed from outside to inside, of said process air passing through and a radially inner, second flow, directed from inside to outside, of process air passing through are formed, said two opposed flows meeting one another along a circular breaking-up zone.
2. Device of claim 1, wherein said circular breaking-up zone extends along a circle halving an area of said bottom.
3. Device of claim 1, wherein baffle elements are arranged between said annular plates, said baffle elements impose a circumferential component movement on said process air flowing through between said annular plates.
4. Device of claim 3, wherein said baffle elements at the same time function as spacers.

5. Device of claim 1, wherein guide surfaces are arranged in a region of said breaking-up zone, these guide surfaces directing a transition of horizontal flows into said vertical flow.
6. Device of claim 1, wherein a slot is likewise arranged in a peripheral circumferential region of said bottom, via which slot process air can be introduced into said process chamber in an inwardly directed manner.
7. Device of claim 1, wherein at least one nozzle spraying vertically upwards is arranged in said breaking-up zone.
8. Device of claim 7, wherein said nozzle is designed as a slotted nozzle, having slotted openings which extend along said breaking-up zone.
9. Device of claim 8, wherein a plurality of slotted nozzles is arranged in a distributed manner in said breaking-up zone.
10. Device of claim 9, wherein each of said slotted nozzles has two orifices in the form of slotted openings.
11. Device of claim 10, wherein said slotted openings of said slotted nozzle are defined by a plurality of plates held at a distance apart.
12. Device of claim 11, wherein said plates are held at a distance apart via spacers and are held on one another by a holding device.
13. Device of claim 12, wherein said plates, bearing against one another, of said slotted nozzle are arched on an inflow side and thereby forming inflow passages.

14. Device of claim 1, wherein at least one slotted nozzle spraying vertically upwards is arranged in said breaking-up zone, said slotted nozzle being designed as a module component which can be inserted from below into said bottom of said process chamber within said breaking-up zone.